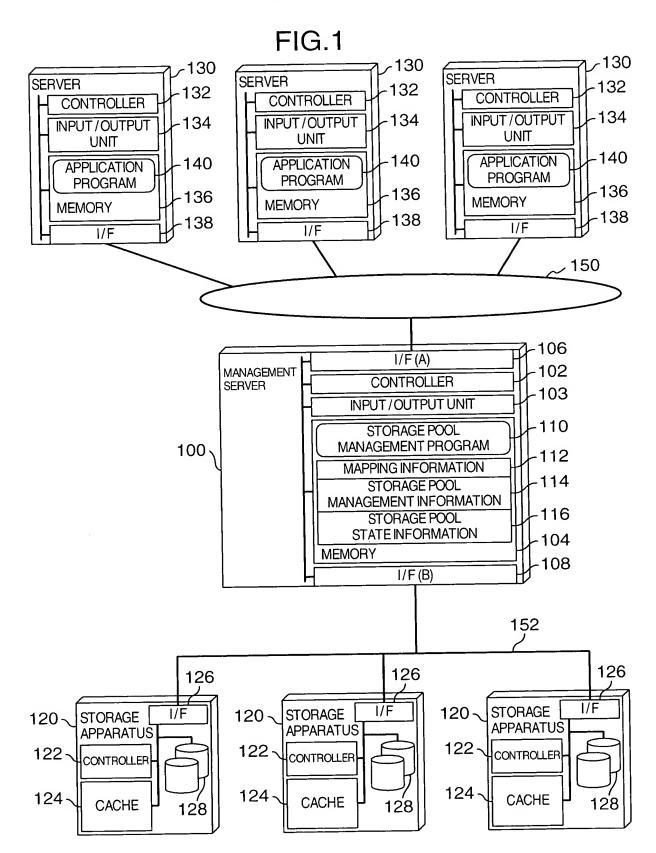
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FIG.2

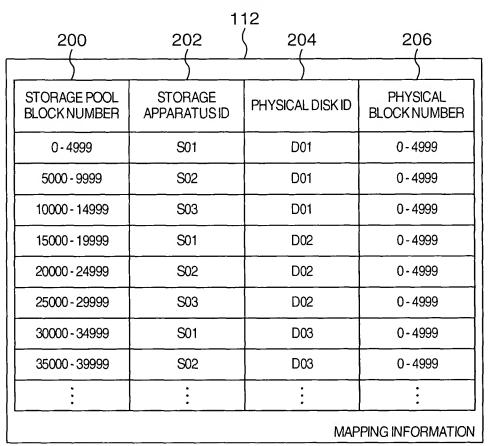
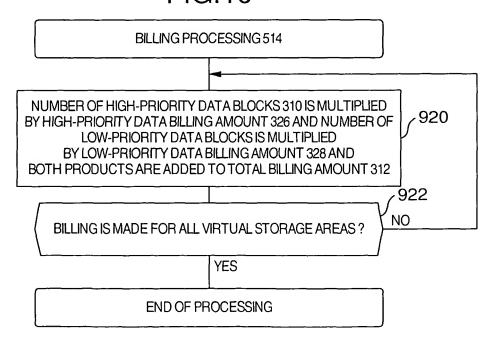


FIG.10



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114 FIG.3A 300 302 304 306 307 308 310 312 301 VIRTUAL **STORAGE** TOTAL NUMBER OF NUMBER OF NUMBER OF SERVER PROCESS POOL BLOCK ASSIGNMENT **BLOCKS BEING** STORAGE HIGH-PRIORITY BILLING **BLOCKS IN USE** DATA BLOCKS **AREAID AMOUNT** NUMBER VAREA01 SRV01 3088 0-99999 100000 50000 40000 1294000 VAREA02 SRV01 5440 100000 - 299999 200000 80000 50000 886000 SRV02 300000 - 549999 250000 120000 120000 5682700 VAREA03 11027 VAREA04 SRV03 2954 550000 - 649999 100000 40000 20000 521500 STORAGE POOL ASSIGNMENT INFORMATION UNASSIGNED 3500000 - 3599999 -314 800000 - 849999 1200000 - 139999 **BLOCK LIST** BILLING AMOUNT OF -316 -326 TOTAL NUMBER OF BLOCKS 9600000 0.05 HIGH-PRIORITY DATA NUMBER OF BILLING AMOUNT OF -318 -328 9000000 0.005 ASSIGNED BLOCKS LOW-PRIORITY DATA NUMBER OF -320 600000 UNASSIGNED BLOCKS NUMBER OF -322 5400000 BLOCKS BEING IN USE NUMBER OF -324 4800000 HIGH-PRIORITY DATA BLOCKS STORAGE POOL MANAGEMENT INFORMATION

fIG.3B

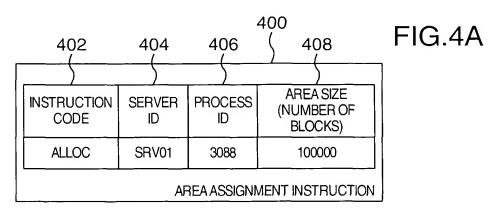
| ASSIGNMENT STATE BIT MAP | 111111111111111111111111111111111111111 |
|--------------------------|---|
| USE STATE BIT MAP | 111111111111111111111111111111111111111 |
| DATA PRIORITY BIT MAP | 111111111111111111111111111111111111111 |
| | STORAGE POOL STATE INFORMATION |

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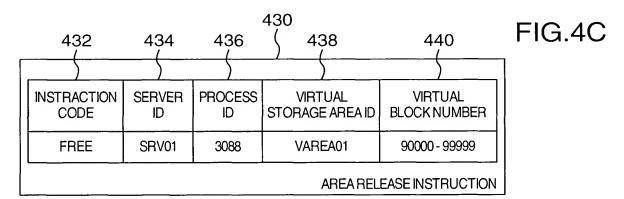
Titl: Management Server for Assigning Storage Areas to Server,...

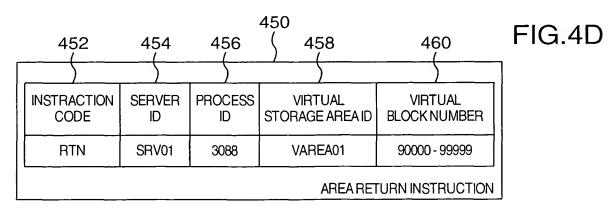
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| 410 | | | | | FIG.4B | | |
|------------------------|--------------|---------------|----------------------------|-------------------------|-------------------|------------------|--|
| 412 | 414 | 416 | 418 | 420 | 422 | 424 | |
| | | | | | | | |
| INSTRACTION CODE | SERVER ID | PROCESS ID | VIRTUAL STORAGE AREA ID | VIRTUAL BLOCK NUMBER | BUFFER ADDRESS | DATA PRIORITY | |
| WRITE | SRV01 | 3088 | VAREA01 | 50000 - 59999 | 2048 | 1 | |
| DATA WRITE INSTRUCTION | | | | | | | |





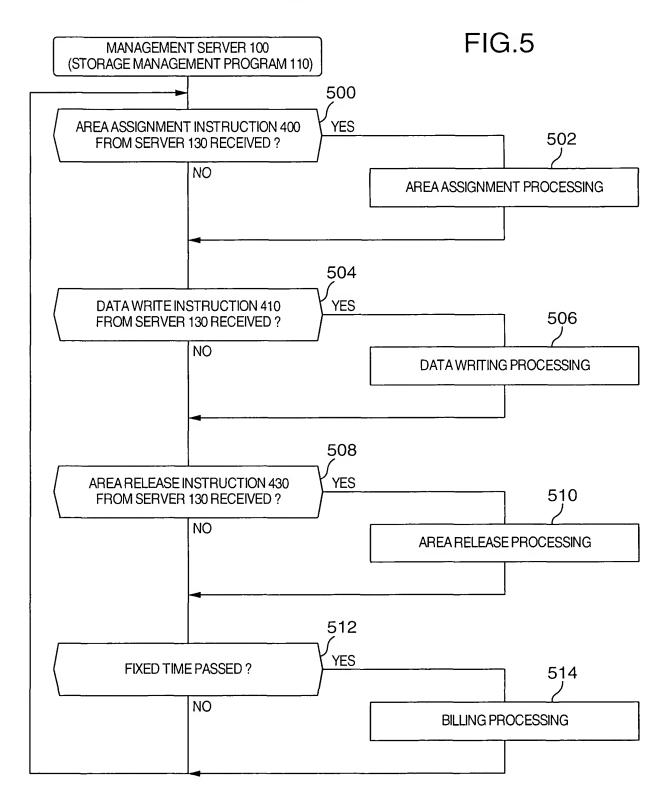
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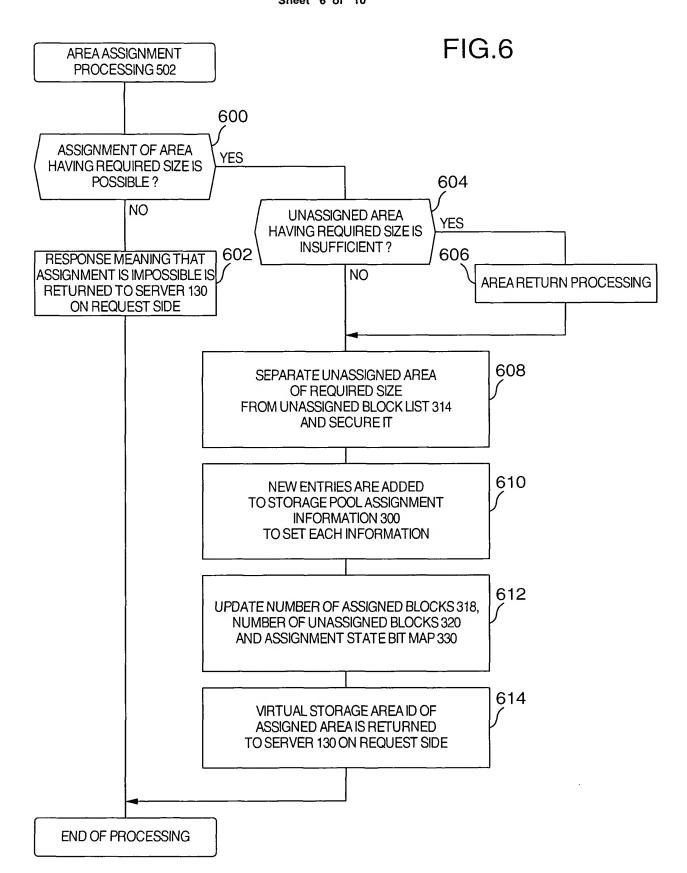
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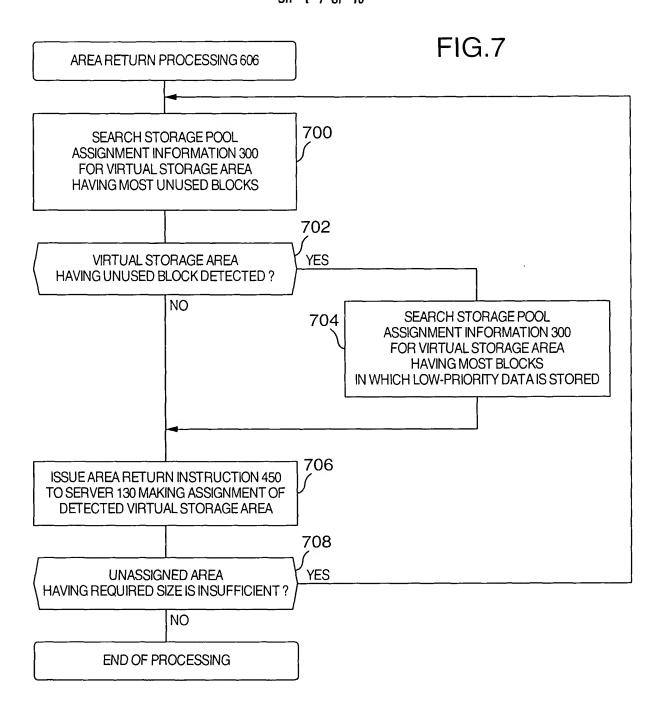


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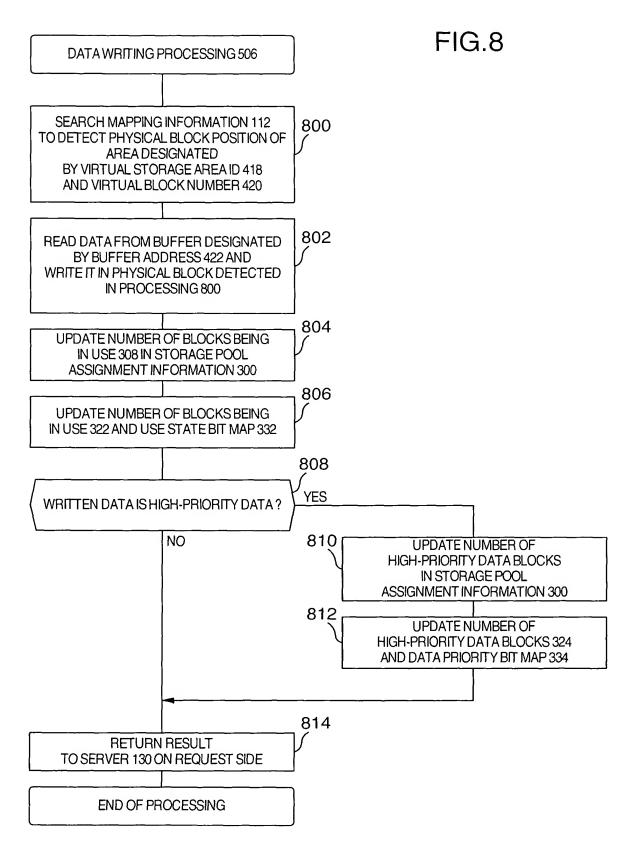
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(650) 326-2400

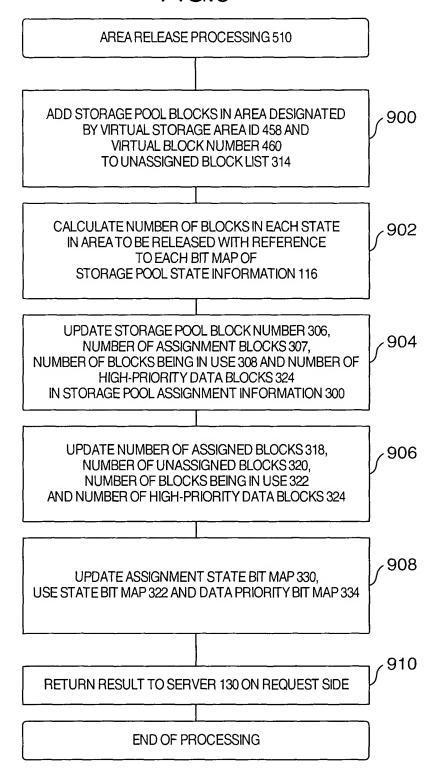
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FIG.9



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